

IN THE CLAIMS:

Please cancel claims 1-9, 20-23, 25, 27-28, 36, 38-39, and 46-47 without prejudice or disclaimer as to the subject matter contained therein.

Please amend the claims as shown in the claims listing.

- 1-9. (Cancelled)
10. (Original) A computer system, comprising:
one or more sensors;
a plurality of system controllers, each comprising:
a processor;
a memory; and
a plurality of input/output (I/O) controllers each configurable with a plurality of
I/O connections to another of the plurality of system controllers, wherein
each of the plurality of I/O controllers is further configurable with an I/O
connection to each of one or more sensors;
wherein the plurality of system controllers includes a primary system controller
and a secondary system controller;
one or more processors;
one or more memories; and
one or more I/O devices;
wherein the primary system controller is configured to configure the one or more
processors, the one or more memories, and the one or more I/O devices
into one or more domains,
wherein the primary system controller is further configured to update secondary
system controller with a system configuration.

11. (Original) The computer system of claim 10, wherein one of the plurality of I/O controllers includes an Ethernet controller.
12. (Original) The computer system of claim 11, wherein a second one of the plurality of I/O controllers includes an IIC controller.
13. (Original) The computer system of claim 10, wherein one of the plurality of I/O controllers includes an IIC controller.
14. (Original) The of claim 10, wherein the processor comprised in each system controller executes software configured to monitor the one or more sensors over the I/O connections to each of the one or more sensors.
15. (Original) The computer system of claim 14, further comprising:
 - a device associated with a sensor of the one or more sensors;
 - wherein the software is further configured to update a configuration of the device associated with the sensor in response to data received from the sensor.
16. (Original) The computer system of claim 15, wherein the software is further configured to update the one or more secondary system controllers with the configuration of the device associated with the sensor.
17. (Original) The computer system of claim 15, further comprising:
 - a memory associated with the device associated with the sensor, wherein the memory is configured to store configuration data for the device;
 - wherein the software is further configured to update the memory associated with the device associated with the sensor over the I/O connection.
18. (Original) The computer system of claim 10, wherein each system controller further comprises:
 - a bootable device.

19. (Original) The computer system of claim 18, wherein the bootable device of each respective system controller is configured to store an operating system executable by the processor comprised in the respective system controller, wherein the bootable device is further configured to store software including instructions that configure the processor comprised in the respective system controller to monitor the sensors.

20-23. (Cancelled)

24. (Currently amended) A method of operating a computer system, the method comprising:

booting a plurality of system controllers configured as a primary system controller
and at least one secondary system controller;

booting one or more domains in the computer system from the primary system
controller;

updating a system configuration on the primary system controller; and

updating the system configuration on the secondary system controller from the
primary system controller;

monitoring the computer system from the primary system controller; and

monitoring the computer system from the secondary system controller;

wherein monitoring the computer system from the secondary system controller
comprises monitoring at least one of the one or more domains from the
secondary system controller.

25. (Cancelled)

26. (Currently amended) The method of claim [25] 24, wherein monitoring the computer system from the primary system controller further comprises monitoring at least one of the one or more domains from the primary system controller.

27-28. (Cancelled)

29. (Original) The method of claim 24, further comprising:
providing a heartbeat signal from the primary system controller to the secondary system controller.
30. (Original) The method of claim 29, wherein providing the heartbeat signal from the primary system controller to the secondary system controller comprises providing the heartbeat signal from the primary system controller to the secondary system controller at a predetermined interval.
31. (Original) The method of claim 29, further comprising:
receiving the heartbeat signal from the primary system controller at the secondary system controller.
32. (Currently amended) ~~The method of claim 29, further comprising:~~ A method of operating a computer system, the method comprising:
booting a plurality of system controllers configured as a primary system controller
and at least one secondary system controller;
booting one or more domains in the computer system from the primary system controller;
updating a system configuration on the primary system controller;
updating the system configuration on the secondary system controller from the primary system controller;
providing a heartbeat signal from the primary system controller to the secondary system controller;
failing to receive the heartbeat signal from the primary system controller at the secondary system controller;
determining that the primary system controller is a failed primary system controller, in response to failing to receive the heartbeat signal from the primary system controller at the secondary system controller; and

replacing the failed primary system controller with the secondary system controller as the primary system controller, in response to determining that the primary system controller is the failed primary system controller.

33. (Original) The method of claim 32, further comprising:
removing the failed primary system controller; and
replacing the failed primary system controller with a secondary system controller.
34. (Original) The method of claim 32, further comprising:
monitoring the computer system from the primary system controller.
35. (Currently amended) A computer readable medium encoded with instructions that, when executed by a computer system, performs a method for operating the computer system, the method comprising:
booting a plurality of system controllers configured as a primary system controller and at least one secondary system controller;
booting one or more domains in the computer system from the primary system controller;
updating a system configuration on the primary system controller; ~~and~~
updating the system configuration on the secondary system controller from the primary system controller;
monitoring the computer system from the primary system controller;
monitoring the computer system from the secondary system controller; and
wherein monitoring the computer system from the secondary system controller comprises monitoring at least one of the one or more domains from the secondary system controller.
36. (Cancelled)

37. (Currently amended) The computer readable medium of claim [36] 35, wherein monitoring the computer system from the primary system controller further comprises monitoring at least one of the one or more domains from the primary system controller.

38-39. (Cancelled)

40. (Original) The computer readable medium of claim 35, the method further comprising:
providing a heartbeat signal from the primary system controller to the secondary system controller.

41. (Original) The computer readable medium of claim 40, wherein providing the heartbeat signal from the primary system controller to the secondary system controller comprises providing the heartbeat signal from the primary system controller to the secondary system controller at a predetermined interval.

42. (Original) The computer readable medium of claim 40, the method further comprising:
receiving the heartbeat signal from the primary system controller at the secondary system controller.

43. (Currently amended) ~~The computer readable medium of claim 40, the method further comprising:~~ A computer readable medium encoded with instructions that, when executed by a computer system, performs a method for operating the computer system, the method comprising:
booting a plurality of system controllers configured as a primary system controller and at least one secondary system controller;
booting one or more domains in the computer system from the primary system controller;
updating a system configuration on the primary system controller;

updating the system configuration on the secondary system controller from the primary system controller;
providing a heartbeat signal from the primary system controller to the secondary system controller;
failing to receive the heartbeat signal from the primary system controller at the secondary system controller;
determining that the primary system controller is a failed primary system controller, in response to failing to receive the heartbeat signal from the primary system controller at the secondary system controller; and
replacing the failed primary system controller with the secondary system controller as the primary system controller, in response to determining that the primary system controller is the failed primary system controller.

44. (Original) The computer readable medium of claim 43, the method further comprising:
removing the failed primary system controller; and
replacing the failed primary system controller with a secondary system controller.

45. (Original) The computer readable medium of claim 43, the method further comprising:
monitoring the computer system from the primary system controller.

46 - 47. (Cancelled)